

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/546,829
Source: PCT
Date Processed by STIC: 09/07/2005

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 09/07/2005

PATENT APPLICATION: US/10/546,829

TIME: 14:46:39

Input Set : A:\FS04-408PCT sequence.ST25.txt

Output Set: N:\CRF4\09072005\J546829.raw

3 <110> APPLICANT: Japan Science and Technology Agency
 5 <120> TITLE OF INVENTION: A transcriptional factor inducing apoptosis of cancer cells
 7 <130> FILE REFERENCE: FS04-408PCT
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/546,829
 C--> 9 <141> CURRENT FILING DATE: 2005-08-25
 9 <160> NUMBER OF SEQ ID NOS: 11
 11 <170> SOFTWARE: PatentIn version 3.3
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 393
 15 <212> TYPE: PRT
 16 <213> ORGANISM: Homo sapiens
 18 <400> SEQUENCE: 1
 20 Met Glu Glu Pro Gln Ser Asp Pro Ser Val Glu Pro Pro Leu Ser Gln
 21 1 5 10 15
 24 Glu Thr Phe Ser Asp Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu
 25 20 25 30
 28 Ser Pro Leu Pro Ser Gln Ala Met Asp Asp Leu Met Leu Ser Pro Asp
 29 35 40 45
 32 Asp Ile Glu Gln Trp Phe Thr Glu Asp Pro Gly Pro Asp Glu Ala Pro
 33 50 55 60
 36 Arg Met Pro Glu Ala Ala Pro Arg Val Ala Pro Ala Ala Pro
 37 65 70 75 80
 40 Thr Pro Ala Ala Pro Ala Pro Ala Pro Ser Trp Pro Leu Ser Ser Ser
 41 85 90 95
 44 Val Pro Ser Gln Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Arg Leu Gly
 45 100 105 110
 48 Phe Leu His Ser Gly Thr Ala Lys Ser Val Thr Cys Thr Tyr Ser Pro
 49 115 120 125
 52 Ala Leu Asn Lys Met Phe Cys Gln Leu Ala Lys Thr Cys Pro Val Gln
 53 130 135 140
 56 Leu Trp Val Asp Ser Thr Pro Pro Pro Gly Thr Arg Val Arg Ala Met
 57 145 150 155 160
 60 Ala Ile Tyr Lys Gln Ser Gln His Met Thr Glu Val Val Arg Arg Cys
 61 165 170 175
 64 Pro His His Glu Arg Cys Ser Asp Ser Asp Gly Leu Ala Pro Pro Gln
 65 180 185 190
 68 His Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp
 69 195 200 205
 72 Arg Asn Thr Phe Arg His Ser Val Val Val Pro Tyr Glu Pro Pro Glu
 73 210 215 220
 76 Val Gly Ser Asp Cys Thr Thr Ile His Tyr Asn Tyr Met Cys Asn Ser
 77 225 230 235 240
 80 Ser Cys Met Gly Gly Met Asn Arg Arg Pro Ile Leu Thr Ile Ile Thr

RAW SEQUENCE LISTING

DATE: 09/07/2005

PATENT APPLICATION: US/10/546,829

TIME: 14:46:39

Input Set : A:\FS04-408PCT sequence.ST25.txt

Output Set: N:\CRF4\09072005\J546829.raw

```

81          245          250          255
84 Leu Glu Asp Ser Ser Gly Asn Leu Leu Gly Arg Asn Ser Phe Glu Val
85          260          265          270
88 His Val Cys Ala Cys Pro Gly Arg Asp Arg Arg Thr Glu Glu Glu Asn
89          275          280          285
92 Leu Arg Lys Lys Gly Glu Pro His His Glu Leu Pro Pro Gly Ser Thr
93          290          295          300
96 Lys Arg Ala Leu Pro Asn Asn Thr Ser Ser Ser Pro Gln Pro Lys Lys
97 305          310          315          320
100 Lys Pro Leu Asp Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu
101          325          330          335
104 Arg Phe Glu Met Phe Arg Glu Leu Asn Glu Ala Leu Glu Leu Lys Asp
105          340          345          350
108 Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
109          355          360          365
112 Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
113          370          375          380
116 Phe Lys Thr Glu Gly Pro Asp Ser Asp
117 385          390
120 <210> SEQ ID NO: 2
121 <211> LENGTH: 1675
122 <212> TYPE: PRT
123 <213> ORGANISM: Homo sapiens
125 <400> SEQUENCE: 2
127 Met Ala Gln Ile Leu Pro Ile Arg Phe Gln Glu His Leu Gln Leu Gln
128 1          5          10          15
131 Asn Leu Gly Ile Asn Pro Ala Asn Ile Gly Phe Ser Thr Leu Thr Met
132          20          25          30
135 Glu Ser Asp Lys Phe Ile Cys Ile Arg Glu Lys Val Gly Glu Gln Ala
136          35          40          45
139 Gln Val Val Ile Ile Asp Met Asn Asp Pro Ser Asn Pro Ile Arg Arg
140          50          55          60
143 Pro Ile Ser Ala Asp Ser Ala Ile Met Asn Pro Ala Ser Lys Val Ile
144 65          70          75          80
147 Ala Leu Lys Ala Gly Lys Thr Leu Gln Ile Phe Asn Ile Glu Met Lys
148          85          90          95
151 Ser Lys Met Lys Ala His Thr Met Thr Asp Asp Val Thr Phe Trp Lys
152          100          105          110
155 Trp Ile Ser Leu Asn Thr Val Ala Leu Val Thr Asp Asn Ala Val Tyr
156          115          120          125
159 His Trp Ser Met Glu Gly Glu Ser Gln Pro Val Lys Met Phe Asp Arg
160          130          135          140
163 His Ser Ser Leu Ala Gly Cys Gln Ile Ile Asn Tyr Arg Thr Asp Ala
164 145          150          155          160
167 Lys Gln Lys Trp Leu Leu Leu Thr Gly Ile Ser Ala Gln Gln Asn Arg
168          165          170          175
171 Val Val Gly Ala Met Gln Leu Tyr Ser Val Asp Arg Lys Val Ser Gln
172          180          185          190
175 Pro Ile Glu Gly His Ala Ala Ser Phe Ala Gln Phe Lys Met Glu Gly

```

RAW SEQUENCE LISTING

DATE: 09/07/2005

PATENT APPLICATION: US/10/546,829

TIME: 14:46:39

Input Set : A:\FS04-408PCT sequence.ST25.txt

Output Set: N:\CRF4\09072005\J546829.raw

```

176          195          200          205
179 Asn Ala Glu Glu Ser Thr Leu Phe Cys Phe Ala Val Arg Gly Gln Ala
180          210          215          220
183 Gly Gly Lys Leu His Ile Ile Glu Val Gly Thr Pro Pro Thr Gly Asn
184 225          230          235          240
187 Gln Pro Phe Pro Lys Lys Ala Val Asp Val Phe Phe Pro Pro Glu Ala
188          245          250          255
191 Gln Asn Asp Phe Pro Val Ala Met Gln Ile Ser Glu Lys His Asp Val
192          260          265          270
195 Val Phe Leu Ile Thr Lys Tyr Gly Tyr Ile His Leu Tyr Asp Leu Glu
196          275          280          285
199 Thr Gly Thr Cys Ile Tyr Met Asn Arg Ile Ser Gly Glu Thr Ile Phe
200          290          295          300
203 Val Thr Ala Pro His Glu Ala Thr Ala Gly Ile Ile Gly Val Asn Arg
204 305          310          315          320
207 Lys Gly Gln Val Leu Ser Val Cys Val Glu Glu Glu Asn Ile Ile Pro
208          325          330          335
211 Tyr Ile Thr Asn Val Leu Gln Asn Pro Asp Leu Ala Leu Arg Met Ala
212          340          345          350
215 Val Arg Asn Asn Leu Ala Gly Ala Glu Glu Leu Phe Ala Arg Lys Phe
216          355          360          365
219 Asn Ala Leu Phe Ala Gln Gly Asn Tyr Ser Glu Ala Ala Lys Val Ala
220          370          375          380
223 Ala Asn Ala Pro Lys Gly Ile Leu Arg Thr Pro Asp Thr Ile Arg Arg
224 385          390          395          400
227 Phe Gln Ser Val Pro Ala Gln Pro Gly Gln Thr Ser Pro Leu Leu Gln
228          405          410          415
231 Tyr Phe Gly Ile Leu Leu Asp Gln Gly Gln Leu Asn Lys Tyr Glu Ser
232          420          425          430
235 Leu Glu Leu Cys Arg Pro Val Leu Gln Gln Gly Arg Lys Gln Leu Leu
236          435          440          445
239 Glu Lys Trp Leu Lys Glu Asp Lys Leu Glu Cys Ser Glu Glu Leu Gly
240          450          455          460
243 Asp Leu Val Lys Ser Val Asp Pro Thr Leu Ala Leu Ser Val Tyr Leu
244 465          470          475          480
247 Arg Ala Asn Val Pro Asn Lys Val Ile Gln Cys Phe Ala Glu Thr Gly
248          485          490          495
251 Gln Val Gln Lys Ile Val Leu Tyr Ala Lys Lys Val Gly Tyr Thr Pro
252          500          505          510
255 Asp Trp Ile Phe Leu Leu Arg Asn Val Met Arg Ile Ser Pro Asp Gln
256          515          520          525
259 Gly Gln Gln Phe Ala Gln Met Leu Val Gln Asp Glu Glu Pro Leu Ala
260          530          535          540
263 Asp Ile Thr Gln Ile Val Asp Val Phe Met Glu Tyr Asn Leu Ile Gln
264 545          550          555          560
267 Gln Cys Thr Ala Phe Leu Leu Asp Ala Leu Lys Asn Asn Arg Pro Ser
268          565          570          575
271 Glu Gly Pro Leu Gln Thr Arg Leu Leu Glu Met Asn Leu Met His Ala
272          580          585          590

```

RAW SEQUENCE LISTING

DATE: 09/07/2005

PATENT APPLICATION: US/10/546,829

TIME: 14:46:39

Input Set : A:\FS04-408PCT sequence.ST25.txt

Output Set: N:\CRF4\09072005\J546829.raw

```

275 Pro Gln Val Ala Asp Ala Ile Leu Gly Asn Gln Met Phe Thr His Tyr
276          595          600          605
279 Asp Arg Ala His Ile Ala Gln Leu Cys Glu Lys Ala Gly Leu Leu Gln
280          610          615          620
283 Arg Ala Leu Glu His Phe Thr Asp Leu Tyr Asp Ile Lys Arg Ala Val
284 625          630          635          640
287 Val His Thr His Leu Leu Asn Pro Glu Trp Leu Val Asn Tyr Phe Gly
288          645          650          655
291 Ser Leu Ser Val Glu Asp Ser Leu Glu Cys Leu Arg Ala Met Leu Ser
292          660          665          670
295 Ala Asn Ile Arg Gln Asn Leu Gln Ile Cys Val Gln Val Ala Ser Lys
296          675          680          685
299 Tyr His Glu Gln Leu Ser Thr Gln Ser Leu Ile Glu Leu Phe Glu Ser
300          690          695          700
303 Phe Lys Ser Phe Glu Gly Leu Phe Tyr Phe Leu Gly Ser Ile Val Asn
304 705          710          715          720
307 Phe Ser Gln Asp Pro Asp Val His Phe Lys Tyr Ile Gln Ala Ala Cys
308          725          730          735
311 Lys Thr Gly Gln Ile Lys Glu Val Glu Arg Ile Cys Arg Glu Ser Asn
312          740          745          750
315 Cys Tyr Asp Pro Glu Arg Val Lys Asn Phe Leu Lys Glu Ala Lys Leu
316          755          760          765
319 Thr Asp Gln Leu Pro Leu Ile Ile Val Cys Asp Arg Phe Asp Phe Val
320          770          775          780
323 His Asp Leu Val Leu Tyr Leu Tyr Arg Asn Asn Leu Gln Lys Tyr Ile
324 785          790          795          800
327 Glu Ile Tyr Val Gln Lys Val Asn Pro Ser Arg Leu Pro Val Val Ile
328          805          810          815
331 Gly Gly Leu Leu Asp Val Asp Cys Ser Glu Asp Val Ile Lys Asn Leu
332          820          825          830
335 Ile Leu Val Val Arg Gly Gln Phe Ser Thr Asp Glu Leu Val Ala Glu
336          835          840          845
339 Val Glu Lys Arg Asn Arg Leu Lys Leu Leu Leu Pro Trp Leu Glu Ala
340          850          855          860
343 Arg Ile His Glu Gly Cys Glu Glu Pro Ala Thr His Asn Ala Leu Ala
344 865          870          875          880
347 Lys Ile Tyr Ile Asp Ser Asn Asn Asn Pro Glu Arg Phe Leu Arg Glu
348          885          890          895
351 Asn Pro Tyr Tyr Asp Ser Arg Val Val Gly Lys Tyr Cys Glu Lys Arg
352          900          905          910
355 Asp Pro His Leu Ala Cys Val Ala Tyr Glu Arg Gly Gln Cys Asp Leu
356          915          920          925
359 Glu Leu Ile Asn Val Cys Asn Glu Asn Ser Leu Phe Lys Ser Leu Ser
360          930          935          940
363 Arg Tyr Leu Val Arg Arg Lys Asp Pro Glu Leu Trp Gly Ser Val Leu
364 945          950          955          960
367 Leu Glu Ser Asn Pro Tyr Arg Arg Pro Leu Ile Asp Gln Val Val Gln
368          965          970          975
371 Thr Ala Leu Ser Glu Thr Gln Asp Pro Glu Glu Val Ser Val Thr Val

```

RAW SEQUENCE LISTING

DATE: 09/07/2005

PATENT APPLICATION: US/10/546,829

TIME: 14:46:39

Input Set : A:\FS04-408PCT sequence.ST25.txt

Output Set: N:\CRF4\09072005\J546829.raw

372		980		985		990
375	Lys Ala Phe Met Thr Ala Asp Leu	Pro Asn Glu Leu Ile	Glu Leu Leu			
376		995		1000		1005
379	Glu Lys Ile Val Leu Asp Asn	Ser Val Phe Ser Glu	His Arg Asn			
380		1010		1015		1020
383	Leu Gln Asn Leu Leu Ile Leu	Thr Ala Ile Lys Ala	Asp Arg Thr			
384		1025		1030		1035
387	Arg Val Met Glu Tyr Ile Asn	Arg Leu Asp Asn Tyr	Asp Ala Pro			
388		1040		1045		1050
391	Asp Ile Ala Asn Ile Ala Ile	Ser Asn Glu Leu Phe	Glu Glu Ala			
392		1055		1060		1065
395	Phe Ala Ile Phe Arg Lys Phe	Asp Val Asn Thr Ser	Ala Val Gln			
396		1070		1075		1080
399	Val Leu Ile Glu His Ile Gly	Asn Leu Asp Arg Ala	Tyr Glu Phe			
400		1085		1090		1095
403	Ala Glu Arg Cys Asn Glu Pro	Ala Val Trp Ser Gln	Leu Ala Lys			
404		1100		1105		1110
407	Ala Gln Leu Gln Lys Gly Met	Val Lys Glu Ala Ile	Asp Ser Tyr			
408		1115		1120		1125
411	Ile Lys Ala Asp Asp Pro Ser	Ser Tyr Met Glu Val	Val Gln Ala			
412		1130		1135		1140
415	Ala Asn Thr Ser Gly Asn Trp	Glu Glu Leu Val Lys	Tyr Leu Gln			
416		1145		1150		1155
419	Met Ala Arg Lys Lys Ala Arg	Glu Ser Tyr Val Glu	Thr Glu Leu			
420		1160		1165		1170
423	Ile Phe Ala Leu Ala Lys Thr	Asn Arg Leu Ala Glu	Leu Glu Glu			
424		1175		1180		1185
427	Phe Ile Asn Gly Pro Asn Asn	Ala His Ile Gln Gln	Val Gly Asp			
428		1190		1195		1200
431	Arg Cys Tyr Asp Glu Lys Met	Tyr Asp Ala Ala Lys	Leu Leu Tyr			
432		1205		1210		1215
435	Asn Asn Val Ser Asn Phe Gly	Arg Leu Ala Ser Thr	Leu Val His			
436		1220		1225		1230
439	Leu Gly Glu Tyr Gln Ala Ala	Val Asp Gly Ala Arg	Lys Ala Asn			
440		1235		1240		1245
443	Ser Thr Arg Thr Trp Lys Glu	Val Cys Phe Ala Cys	Val Asp Gly			
444		1250		1255		1260
447	Lys Glu Phe Arg Leu Ala Gln	Met Cys Gly Leu His	Ile Val Val			
448		1265		1270		1275
451	His Ala Asp Glu Leu Glu Glu	Leu Ile Asn Tyr Tyr	Gln Asp Arg			
452		1280		1285		1290
455	Gly Tyr Phe Glu Glu Leu Ile	Thr Met Leu Glu Ala	Ala Leu Gly			
456		1295		1300		1305
459	Leu Glu Arg Ala His Met Gly	Met Phe Thr Glu Leu	Ala Ile Leu			
460		1310		1315		1320
463	Tyr Ser Lys Phe Lys Pro Gln	Lys Met Arg Glu His	Leu Glu Leu			
464		1325		1330		1335
467	Phe Trp Ser Arg Val Asn Ile	Pro Lys Val Leu Arg	Ala Ala Glu			
468		1340		1345		1350

VERIFICATION SUMMARY

DATE: 09/07/2005

PATENT APPLICATION: US/10/546,829

TIME: 14:46:40

Input Set : A:\FS04-408PCT sequence.ST25.txt

Output Set: N:\CRF4\09072005\J546829.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date